

– weishaupt –

# info

Information on Weishaupt products





# Reliability

From the Zugspitze to luxury cruise ships to China's Hall of the People – burners, heating and condensing systems, heat pumps, solar systems and building management systems from Weishaupt can be found everywhere.

Reliability, precision work and service are the characteristics of the family owned technology company, founded by Max Weishaupt in Schwendi, Southern Germany in 1932, which is represented by branch offices and daughter companies in sixty countries.

The production facility for small, medium and large, industrial burners and for control panels is located in Schwendi. Pyropac AG, part of the Weishaupt group of companies, located in Sennwald, Switzerland produces heating and condensing systems.

With the company "Neuberger Building Management" in Rothenburg ob der Tauber, the whole spectrum of modern building management can be covered. BauGrund Süd GmbH, another member of the Weishaupt group, is one of the leading drilling companies in Europe and provides geothermal and well drillings for

heat pump systems. Continuous work on new developments and on optimising existing Weishaupt products has been carried out in the company's own Research and Development Institute at the head office since 1962. Weishaupt's motivation is driven by technical advances, which continue to set standards in the industry.

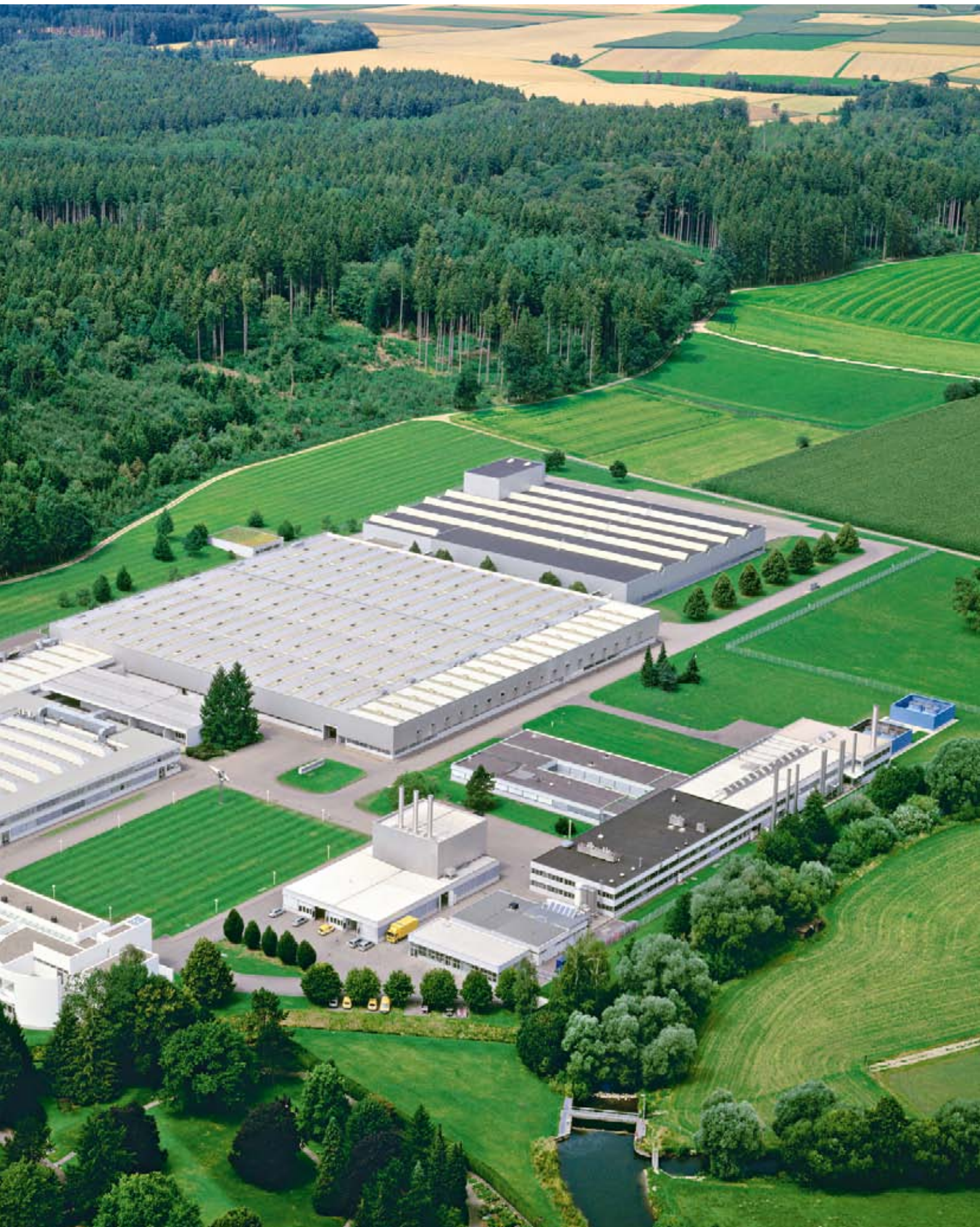
A willingness to invest provides the necessary head start in a tough, competitive environment. So in recent years, many millions of Euros have been invested in new products and in the expansion of the production facility. Meticulous product control and prompt professional service ensure Weishaupt's well known reliability.

The full Weishaupt Programme includes:

- Small, medium and industrial burners
- Condensing systems for oil and gas
- Energy storage
- Domestic water heaters
- Solar systems
- Heat pumps and associated geothermal and well systems
- Building Management Systems

Administration, burner production,  
control panel production and  
research at the head office in  
Schwendi.







# Burners

For decades, burners with the Weishaupt trademark have been synonymous with reliability and economical use of liquid and gaseous fuels.

With a wide spectrum of ratings, starting with just a few kilowatts up to many megawatts, Weishaupt burners are used in a variety of different applications.

Weishaupt continually sets new standards with constant further developments in the company's own Research and Development Institute. Low pollutant combustion achieved using multiflam technology, and digital combustion management are just two of many examples of Weishaupt's strength in innovation and the associated quality of Weishaupt products.

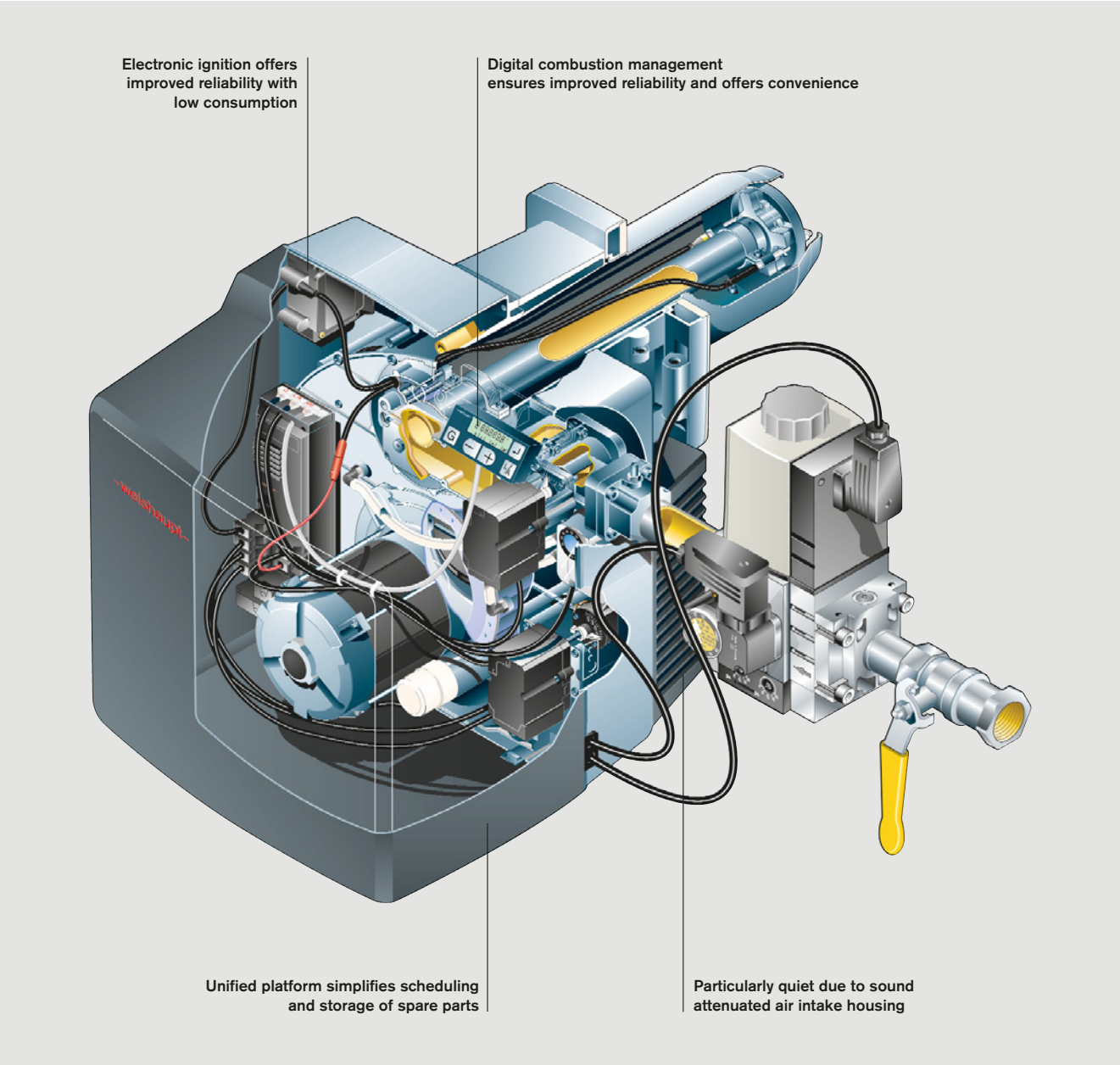
All burners are manufactured at the head office in Schwendi. The ultra-modern production plant is a showpiece not only in terms of safety, precision and cleanliness – it also allows fast production of medium and large, industrial burners, which are almost always made to individual customer specification. This is partly due to the high level of in-house manufactured parts, which not only ensures that high quality standards are met, but also allows prompt production of special equipment.

The new monarch burner  
combines sophisticated high  
technology with functional design.





# Burner series W: proven a million times over.



All components of W burners are bought together in a compact unit. The components for fuel/air regulation are clearly laid out and easily accessible.



The ratings spectrum of the W burner series starts at 12 kW and ranges up to 570 kW.

The success of Weishaupt's compact W series, is the result of uncompromising quality and customer focus. Millions of W burners are providing reliable and economical service in homes for central heating and domestic water heating as well as for process plants.

The burners, with an output of up to 570 kW, are not only very compact but are also equipped with the latest Weishaupt burner technology.

The standard use of digital combustion management maximises reliability and efficiency through microprocessor-based monitoring and control of all functions.

Due to the digitalisation of the burner, integration into a building management system, control via computer system and remote monitoring and diagnostic are possible via modem.

The diversity of applications, well thought out design and reliability of the burners have contributed to the exemplary success of the W series.

One example of improvements in technology for the W series is the purflam burner, which was developed in Weishaupt's research and development institute. With its special mixing head, the purflam burner combusts the oil virtually soot free and with very low emissions by first converting the fuel into a gaseous condition.

These and other advances in development form the basis for ever more economical and reliable heat generation.



W burners operate fully automatic. The digital combustion management ensures the burners precisely follow the predetermined sequence of operation and controls the fuel/air ratio.

monarch<sup>®</sup> burners:  
clean design with maximum functionality



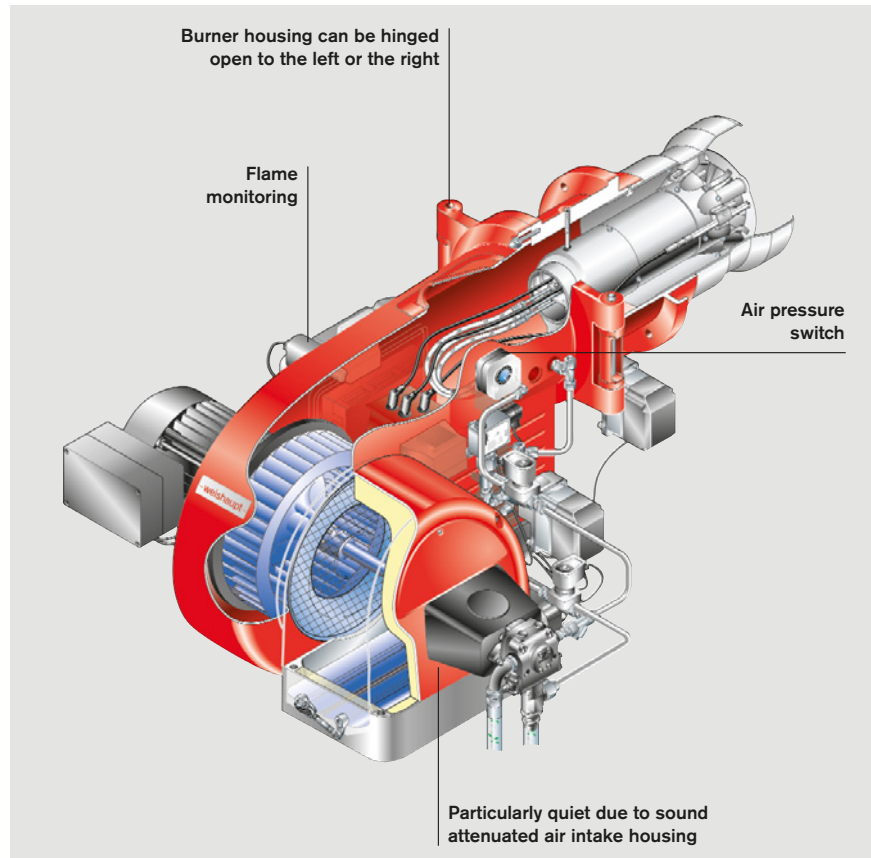
All ratings sizes of the new monarch burners combine high technology with functional design.

No marque has been with Weishaupt for longer or been more iconic: "Monarch" has always stood for low emissions, robust technology and reliable operation.

The current series of Weishaupt WM monarch burner embodies these virtues with modern technology and outstanding design. The oil, gas and dual fuel burners operate on heating, steam and high-efficiency boilers and air heaters and are not only reliable and economical, but also extremely quiet. A completely new air flow geometry was developed in Weishaupt's own aerodynamic test facility - unique in the industry - which allows a hitherto never achieved quiet and efficient operation.

The standard integration of the digital Weishaupt combustion management into the new monarch burners ensures constant, low emission combustion. The digitalisation of the burner also enables the integration of control into BMS networks and Bus systems, making control fully automatic.

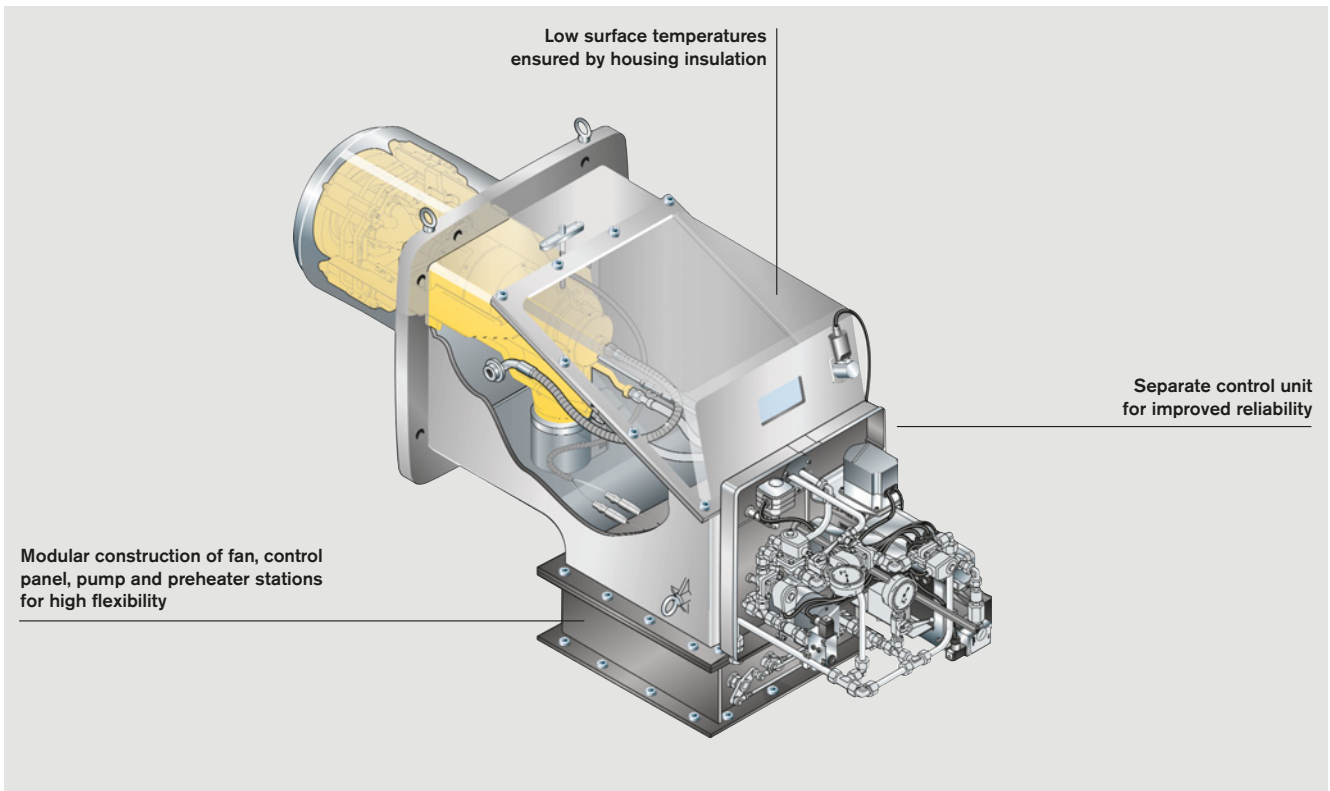
The burners can also be equipped with speed control and O<sub>2</sub> trim to further increase efficiency. Flexibility, which pays. Weishaupt's monarch WM burner range offers a complete programme for ratings up to 5,700 kW where efficiency, low emissions and reliable operation are a must – all this together with nationwide and worldwide Weishaupt service.



WK burners for industrial applications:  
power-packs in modular design.



The WK 80 is at the top of the ratings range for Weishaupt industrial burners.



WK burners can easily be adapted to various plant conditions - even under the harshest conditions.

The WK burner range contains the most powerful and largest Weishaupt burners. Their modular design and large ratings spectrum makes them particularly suitable for industrial applications. The separation of the various components such as fan, control panel, pump station, etc. provides maximum efficiency and flexibility for various applications. Due to the modular design, these burners can be used for combustion air temperatures up to 250° C.

This flexibility, coupled with technical advantages such as digital combustion management, speed control and O<sub>2</sub> trim, as well as multiflam technology make the WK burners a force to be reckoned with in the industrial burner market.

Another unique feature is the test bed used to type test Weishaupt's industrial burners. This test bed makes it possible to supply type tested burners of sizes beyond the 20 MW limit, thus making them "ready to use".

It does not matter which type of fuel is available. The Weishaupt WK burner can be operated with various oils and gases depending on the version selected.

Of course, the WK burner is fitted as standard with all Weishaupt virtues - economy, efficiency and reliability.

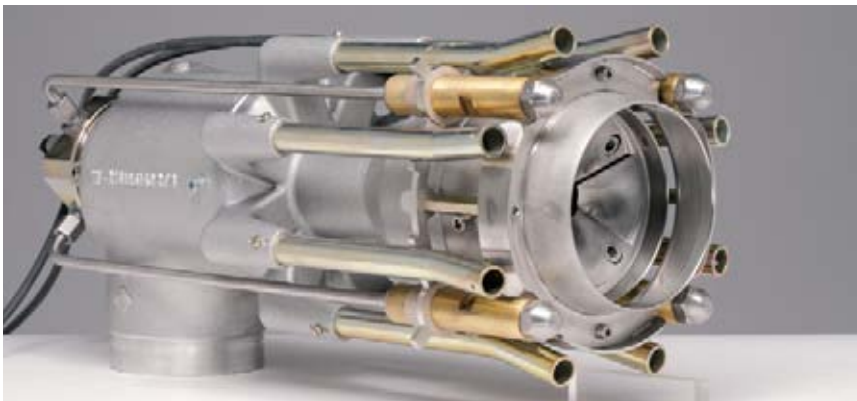
# multiflam<sup>®</sup> principle: emission reduction as standard.

In 1999, Weishaupt made history with the introduction of multiflam technology into the market. Unprecedented low emission values stunned the industry. With the patented mixing head, Weishaupt was able to reduce the Nitrous Oxide emissions (NO<sub>x</sub>) for medium and large burners to values normally only seen with compact burners. Weishaupt has set the standards with values below 120 mg/m<sup>3</sup> for oil and 60 mg/m<sup>3</sup> for gas, depending on the relevant combustion chamber geometry.

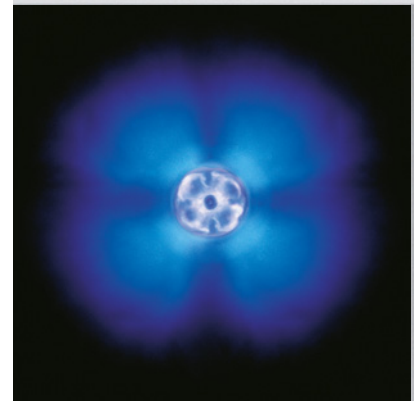
The multiflam burners therefore comply with the most stringent regulations worldwide and are leaders among industrial burners particularly in countries with strict environmental regulations such as Switzerland.

The core of multiflam technology is the special construction of the mixing head, in which the fuel is divided and its energy released to secondary and primary flames, making combustion more efficient than ever before. This is achieved by the recirculation of the combustion mixture directly in the mixing head.

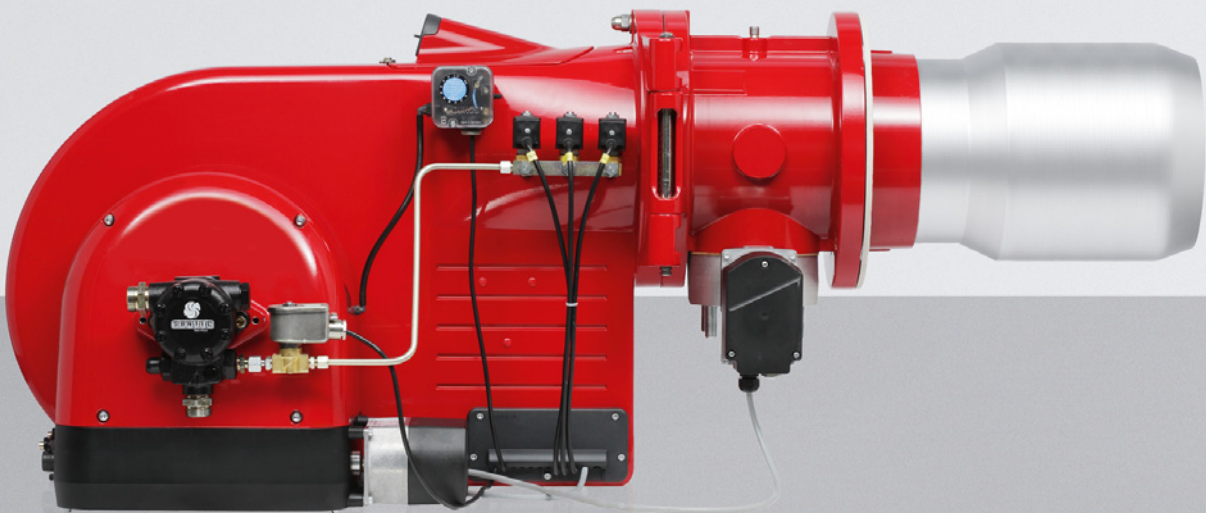
This technology is used with various burner ranges and ratings sizes. Starting with the Weishaupt monarch WM10 to the dual fuel burner WK 80, the largest of Weishaupt's industrial burners, multiflam technology ensures exemplary low emissions.



The multiflam mixing head can be recognised by its separate nozzles.



The special flame formation is generated by recirculation.



The new monarch WM burner range is also available in multiflam version.

# Weishaupt worldwide: We are there when you need us.

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